Approval Package for:

Application Number: 040098

Trade Name: ACETAMINOPHEN AND CODEINE PHOSPHATE ORAL SOLUTION USP

Generic Name: Acetaminophen and Codeine Phosphate Oral Solution USP 120mg/12mg/5ml

Sponsor: MOVA Pharmaceutical Corporation

Approval Date: September 20, 1996

APPLICATION 040098

CONTENTS

	Included	Pending	Not	Not
		Completion	Prepared	Required
Approval Letter	X			
Tenative Approval Letter				
Approvable Letter				
Final Printed Labeling	X			
Medical Review(s)				
Chemistry Review(s)	X			
EA/FONSI				
Pharmacology Review(s)				
Statistical Review(s)				
Microbiology Review(s)				
Clinical Pharmacology				
Biopharmaceutics Review(s)				
Bioequivalence Review(s)	X			
Administrative Document(s)				
Correspondence				

Application Number 040098

APPROVAL LETTER

MOVA Pharmaceutical Corporation Attention: Dale Robson P.O. Box 8639 Caguas, Puerto Rico 00726 SEP 20 ipps

9/20/96

Dear Madam:

This is in reference to your abbreviated new drug application dated February 25, 1994, submitted pursuant to Section 505(j) of the Federal Food, Drug, and Cosmetic Act, for Acetaminophen and Codeine Phosphate Oral Solution USP, 120 mg/12 mg per 5 mL.

Reference is also made to your amendment dated April 22, 1996.

We have completed the review of this abbreviated application and have concluded that the drug is safe and effective for use as recommended in the submitted labeling. Accordingly, the application is approved. The Division of Bioequivalence has determined your Acetaminophen and Codeine Phosphate Oral Solution USP, 120 mg/12 mg per 5 mL, to be bioequivalent and, therefore, therapeutically equivalent to the listed drug (Tylenol with Codeine Elixir, 120 mg/12mg per 5 mL, of R. W. Johnson Pharmaceutical Research Institute).

Under 21 CFR 314.70, certain changes in the conditions described in this abbreviated application require an approved supplemental application before the change may be made.

Post-marketing reporting requirements for this abbreviated application are set forth in 21 CFR 314.80-81. The Office of Generic Drugs should be advised of any change in the marketing status of this drug.

We request that you submit, in duplicate, any proposed advertising or promotional copy which you intend to use in your initial advertising or promotional campaigns. Please submit all proposed materials in draft or mock-up form, not final print. Submit both copies together with a copy of the proposed or final printed labeling to the Division of Drug Marketing, Advertising, and Communications (HFD-240). Please do not use Form FD-2253 (Transmittal of Advertisements and Promotional Labeling for Drugs for Human Use) for this initial submission.

We call your attention to 21 CFR 314.81(b)(3) which requires that materials for any subsequent advertising or promotional campaign be submitted to our Division of Drug Marketing, Advertising, and Communications (HFD-240) with a completed Form FD-2253 at the time of their initial use.

Douglas L. Sporn
Director
Office of Generic Drugs
Center for Drug Evaluation and Research

cc: ANDA #40-098
Division File
Field Copy
HFD-600/Reading File
HFD-82 (AP)
HFD-8/PSavino

HPD 613/ J. PWILLYS Endorsements:

HFD-647/LTang/5-6-96

HFD-647/JSimmons/5-10-9

HFD-613/AVezza/5-13-96

HFD-613/JGrace/5-13-96

HFD-647/TAmes/5-17-96

F/T by pah/5-?-96

40098N04.LLT/5-6-96/dis

Approval

APPLICATION NUMBER 040098

FINAL PRINTED LABELING

Usual Dosage: Adults: One tablespoonful (15

mL) every four hours as needed. Children (7-

12 years): Two teaspoonfuls (10 mL) three or

four times daily. Children (3-6 years): One

teaspoonful (5 mL) three or four times daily.

Children (under 3 years): Safe dosage has not

been established. For prescribing information,

Store at controlled room temperature 15°-30°C

see accompanying product literature.

WORK PARTY

MOVA PHARMACEUTICAL CORPORATION P.O. Box 8639 Caguas, Puerto Rico 00726 (809) 746-8500

NDC 55370-341-48

MOVA



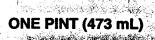
120 mg / 12 mg per 5 mL

Each 5 mL contains: Acetaminophen 120 mg Codeine Phosphate 12 mg *Warning-May be habit forming.

Alcohol 7%

PROTECT FROM LIGHT

CAUTION: Federal law prohibits dispensing without prescription.



NDC 55370-341-48

MOVA



ACETAMINOPHEN AND CODEINE PHOSPHATE* Oral Solution. USP

120 mg / 12 mg per 5 mL

Each 5 mL contains: Acetaminophen 120 mg Codeine Phosphate 12 mg *Warning-May be habit forming.

Alcohol 7%

PROTECT FROM LIGHT

CAUTION: Federal law prohibits dispensing without prescription.



Manufatured by MOVA PHARMACEUTICAL CORPORATION Caguas, Puerto Rico 00725

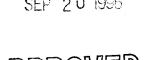
Usual Dosage: Adults: One tablespoonful (15 mL) every four hours as needed. Children (7-12 years): Two teaspoonfuls (10 mL) three or four times daily. Children (3-6 years): One teaspoonful (5 mL) three or four times daily. Children (under 3 years): Safe dosage has not been established. For prescribing information, see accompanying product literature.

Store at controlled room temperature 15°-30°C (59°-86°F). Do not refrigerate.

This is a bulk container. Not intended for household use.

Dispense in a tight, lightresistant container as defined in the USP.

201996



Manufatured by NOVA PHARMACEUTICAL CORPORATION Caguas, Puerto Rico 00725

Usual Dosage: Adults: One tablespoonful (15 mL) every four hours as needed. Children (7-12 years): Two teaspoonfuls (10 mL) three or four times daily. Children (3-6 years): One teaspoonful (5 mL) three or four times daily. Children (under 3 years): Safe dosage has not been established. For prescribing information, see accompanying product literature.

Store at controlled room temperature 15°-30°C (59°-86°F). Do not refrigerate.

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Dispense in a tight, lightresistant container as defined in the USP.

20 1996



NDC 55370-341-48



ACETAMINOPHEN AND CODEINE PHOSPHATE^{*} Oral Solution, USP

120 mg / 12 mg per 5 mL

MOVA

Each 5 mL contains: Acetaminophen 120 mg Codeine Phosphate 12 mg Warning-May be habit forming.

Alcohol 7%

PROTECT FROM LIGHT

CAUTION: Federal law prohibits dispensing without prescription.

ONE PINT (473 mL) distribution of the second

intended for household use.

Dispense in a tight, lightresistant container as defined in the USP.

(59°-86°F). Do not refrigerate.

This is a bulk container. Not



SEP ?



Manufatured by **MOVA PHARMACEUTICAL CORPORATION** Caguas, Puerto Rico 00725

MOVA

NDC 55370-341-48



ACETAMINOPHEN AND CODEINE PHOSPHATE* Oral Solution, USP

120 mg / 12 mg per 5 mL

Each 5 mL contains: Acetaminophen 120 mg Codeine Phosphate 12 mg *Warning-May be habit forming.

PROTECT FROM LIGHT

CAUTION: Federal law prohibits dispensing without prescription.

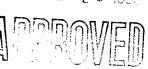
Usual Dosage: Adults: One tablespoonful (15 mL) every four hours as needed. Children (7-12 years): Two teaspoonfuls (10 mL) three or four times daily. Children (3-6 years): One teaspoonful (5 mL) three or four times daily. Children (under 3 years): Safe dosage has not been established. For prescribing information, see accompanying product literature.

Store at controlled room temperature 15°-30°C (59°-86°F). Do not refrigerate.

This is a bulk container. Not intended for household use.

Dispense in a tight, lightresistant container as defined in the USP.

SFP 20 1999



ONE PINT (473 mL)

Manufatured by MOVA PHARMACEUTICAL CORPORATION Caguas, Puerto Rico 00725



ONE PINT (473 mL)





DESCRIPTION

Acetaminophen and codeine phosphate oral solution is pharmacologically classified as an analgesic.

Acetaminophen, 4'-hydroxyacetanilide, a slightly bitter, white, odorless, crystalline powder, is a non-opiate, non-salicyate analgesic and antipyretic. Its has the following structural formula:

MW 151.17

Codeine phosphate, $7,\alpha$ -didehydro- $4,5\alpha$ -epoxy-3-methoxy-17-methylmorphinan- 6α -ol phosphate (1:1) (salt) hemihydrate, a white crystalline powder, is a narcotic analgesic and antitussive. It has the following structural formula:

C₁₈H₂₁NO₃•H₃PO₄•½H₂O

MW 406.37

Each 5 mL for oral administration contains:
Acetaminophen 120 mg
Codeine Phosphate 12 mg
(Warning: May be habit forming)
Alcohol 7 %

In addition the following inactive ingredients are present: Citric Acid, Propylene Glycol, Polyethylene Glycol, Sodium Benzoate, Saccharin Sodium, Sucrose, Artificial Cherry Flavor, FD&C Yellow No. 6.

CLINICAL PHARMACOLOGY

This product combines the analgesic effects of a centrally acting analgesic, codelne, with a peripherally acting analgesic, acetaminophen.

Pharmacokinetics: The behavior of the individual components is described below.

Codeine: Codeine is readily absorbed from the gastrointestinal tract. It is rapidly distributed from the intravascular spaces to the various body tissues, with preferential uptake by parenchymatous organs such as the liver, spieen and kidney. Codeine crosses the blood-brain barrier, and is found in fetal tissue and breast milk. The plasma concentration does not correlate with brain concentration or relief of pain; however, codeine is not bound to plasma proteins and does not accumulate in body tissues.

The plasma half-life is about 2.9 hours. The elimination of codeine is primarily via the kidneys, and about 90% of an oral dose is excreted by the kidneys within 24 hours of dosing. The urinary secretion products consist of free and glucuronide conjugated codeine (about 70%), free and conjugated morcodeine (about 10%), free and conjugated morphine (about 10%), normorphine (4%), and hydrocodone (1%). The remainder of the dose is excreted in the faces.

At therapeutic doses, the analgesic effect reaches a peak within 2 hours and persists between 4 and 6 hours

See OVERDOSAGE for toxicity information.

Acetaminonhan-tastastics (

and glucuronide conjugated codeine (about 10%), tree and conjugated norcodeine (about 10%), free and conjugated morphine (about 10%), normorphine (4%), and hydrocodone (1%). The remainder of the dose is excreted in the feces.

At therapeutic doses, the analgesic effect reaches a peak within 2 hours and persists between 4 and 6 hours.

See OVERDOSAGE for toxicity information.

Acetaminophen: Acetaminophen is rapidly absorbed from the gastrointestinal tract and is distributed throughout most body tissues. The plasma half-life is 1.25 to 3 hours, but may be increased by liver damage and following overdosage. Elimination of acetaminophen is principally by liver metabolism (conjugation) and subsequent renal excretion of metabolites. Approximately 85% of an oral dose appears in the urine within 24 hours of administration, most as the glucuronide conjugate, with small amounts of other conjugates and unchanged drug.

See OVERDOSAGE for toxicity information.

INDICATIONS AND USAGE

Acetaminophen and codeine phosphate oral solution is indicated for the relief of mild to moderate pain.

CONTRAINDICATIONS

This product should not be administered to patients who have previously exhibited hypersensitivity to codeine or acetaminophen.

WARNINGS

In the presence of head injury or other intracranial lesions, the respiratory depressant effects of codeine and other narcotics may be markedly enhanced, as well as their capacity for elevating cerebrospinal fluid pressure. Narcotics also produce other CNS depressant effects, such as drowsiness, that may further obscure the clinical course of the patients with head injuries.

Codeine or other narcotics may obscure signs on which to judge the diagnosis or clinical course of patients with acute abdominal conditions.

Codeine is habit-forming and potentially abusable. Consequently, the extended use of this product is not recommended.

PRECAUTIONS

General: Acetaminophen and codeine phosphate oral solution should be prescribed with caution in certain special-risk patients, such as the elderly or debilitated, and those with severe impairment of renal or hepatic function, head injuries, elevated intracranial pressure, acute abdominal conditions, hypothyroidism, urethral stricture, Addison's disease, or prostatic hypertrophy.

Information for Patients: Codeine may impair mental and/or physical abilities required for the performance of potentially hazardous tasks such as driving a car or operating machinery. Such tasks should be avoided while taking this product.

Alcohol and other CNS depressants may produce an additive CNS depression, when taken with this combination product, and should be avoided.

Codeine may be habit-forming. Patients should take the drug only for as long as it is prescribed, in the amounts prescribed, and no more frequently than prescribed.

Laboratory Tests: In patients with severe hepatic or renal disease, effects of therapy should be monitored with serial liver and/or renal function tests.

Drug Interactions: This drug may enhance the effects of: other narcotic analgesics, alcohol, general anesthetics, transulizers such as chlordiazepoxide, sedative-hypnotics, or other CNS depressants, causing increased CNS depression.

Drug/Laboratory Test interactions: Codeine may increase serum amylase levels.

Acetaminophen may produce false-positive test results for urinary 5-hydroxyindoleacetic acid.

Carcinogenesis, Mutagenesis, Impairment of Fertility:
No adequate studies have been conducted in animals to
determine whether acetaminophen and codeine have a
potential for carcinogenesis or mutagenesis. No adequate
studies have been conducted in animals to determine
whether acetaminophen has a potential for impairment
of fertility.

Acetaminophen and codeline have been found to have no mutagenic potential using the Ames Salmonella-Microsomal Activation test, the Basc test on Drosophila germ cells, and the Micronucleus test on mouse bone marrow.

Pregnancy:
Teratogenic Effects: Pregnancy Category C:
Teratogenic Effects: Pregnancy Category C:
Codeine: A study in rats and rabbits reported no teratoCodeine: A

delayed ossification in the cappring.

There are no adequate and well-controlled studies in pregnant women. Acetaminophen and codeine phosphate should be used during pregnancy only if the potential benefit justifies the potential risk to the fetus.

Nonteratogenic Effects:

Dependence has been reported in newborns whose mothers took opiates regularly during pregnancy. Withdrawal signs include irritability, excessive crying, tremors, hyperreflexia, fever, vomiting, and diarrhea. These signs usually appear during the first few days of life.

Labor and Delivery: Narcotic analgesics cross the placental barrier. The closer to delivery and the larger the dose used, the greater the possibility of respiratory depression in the newborn. Narcotic analgesics should be avoided during labor if delivery of a premature infant is anticipated. If the mother has received narcotic analgesics during labor, newborn infants should be observed closely for signs of respiratory depression. Resuscitation may be required (see OVERDOSAGE). The effect of codeline, if any, on the later growth, development, and functional maturation of the child is unknown.

Nursing Mothers: Acetaminophen and codeine are excreted in breast milk in small amounts, but the significance of their effects on nursing infants is not known. Because of the potential for serious adverse reactions in nursing infants from acetaminophen and codeine, a decision should be made whether to discontinue nursing or to discontinue the drug, taking into account the importance of the drug to the mother.

Pediatric Use: Safe dosage of acetaminophen and codeine phosphate oral solution has not been established in pediatric patients below the age of 3 years.

ADVERSE REACTIONS

The most frequently reported adverse reactions are drowsiness, lightheadedness, dizziness, sedation, shortness of breath, nausea and vomiting. These effects seem to be more prominent in ambulatory than in non-ambulatory patients, and some of these adverse reactions may be alleviated if the patient lies down. Other adverse reactions include allergic reactions, euphoria, dysphoria, constipation, abdominal pain, pruritus, rash, thrombocytopenia, agranulocytosis.

At higher doses codeine has most of the disadvantages of morphine including respiratory depression.

DRUG ABUSE AND DEPENDENCE

Controlled Substance: Acetaminophen and codeine phosphate oral solution is classified as a Schedule V controlled substance.

Abuse and Dependence: Codeine can produce drug dependence of the morphine type and, therefore, has the potential for being abused. Psychological dependence, physical dependence and tolerance may develop upon repeated administration and it should be prescribed and administered with the same degree of caution appropriate to the use of other oral narcotic medications.

OVERDOSAGE

Following an acute overdosage, toxicity may result from codeine or acetaminophen.

Signs and symptoms:

Codeine: Toxicity from codeine poisoning includes the opioid triad of: pinpoint pupils, depression of respiration, and loss of consciousness. Convulsions may occur.

Acetaminophen: In acetaminophen overdosage: dosedependent, potentially fatal hepatic necrosis is the most serious adverse effect. Renal tubular necrosis, hypoglycemic coma and thrombocytopenia may also occur.

Early symptoms following a potentially hepatotoxic overdose may include: nausea, vomiting, diaphoresis and general malaise. Clinical and laboratory evidence of hepatic toxicity may not be apparent until 48 to 72 hours post-ingestion.

In adults, hepatic toxicity has rarely been reported with acute overdoses of less than 10 grams or fatalities with less than 15 grams.

Treatment: A single or multiple overdose with acetaminophen and codeine is a potentially lethal polydrug overdose, and consultation with a regional poison control center is recommended.

Immediate treatment includes support of cardiorespiratory function and measures to reduce drug absorption. Vomiting should be induced mechanically, or with syrup In adults, hepatic toxicity has rarely been reported with acute overdoses of less than 10 grams or fatalities with less than 15 grams.

Treatment: A single or multiple overdose with acetaminophen and codeine is a potentially lethal polydrug overdose, and consultation with a regional poison control center is recommended.

Immediate treatment includes support of cardiorespiratory function and measures to reduce drug absorption. Vomiting should be induced mechanically, or with syrup of ipecac, if the patient is alert (adequate pharyngeal and laryngeal reflexes). Oral activated charcoal (1 g/kg) should follow gastric emptying. The first does should be accompanied by an appropriate cathartic. If repeated doses are used, the cathartic might be included with alternate doses as required. Hypotension is usually hypovolemic and should respond to fluids. Vássopressors and other supportive measures should be employed as indicated. A cuffed endo-tracheal tube should be inserted before gastric lavage of the unconscious patient and, when necessary, to provide assisted respiration.

Meticulous attention should be given to maintaining adequate pulmonary ventilation. In severe cases of intoxication, peritoneal dialysis, or preferably hemodialysis may be considered. If hypoprothrombinemia occurs due to acetaminophen overdose, vitamin K should be administered intravenously.

Naloxone, a narcotic antagonist, can reverse respiratory depression and coma associated with opioid overdose. Naloxone hydrochloride 0.4 mg to 2 mg is given parenterally. Since the duration of action of codeine may exceed that of the naloxone, the patient should be kept under continuous surveillance and repeated doses of the antagonist should be administered as needed to maintain adequate respiration. A narcotic antagonist should not be administered in the absence of clinically significant respiratory or cardiovascular depression.

If the dose of acetaminophen may have exceeded 140 mg/kg, acetylcysteine should be administered as early as possible. Serum acetaminophen levels should be obtained, since levels four or more hours following ingestion help predict acetaminophen toxicity. Do not await acetaminophen assay results before initiating treatment. Hepatic enzymes should be obtained initially, and repeated at 24-hour intervals.

Methemoglobinemia over 30% should be treated with methylene blue by slow intravenous administration.

Toxic Doses (for adults):

Acetaminophen: toxic dose Codeine: toxic dose 10 g 240 mg

DOSAGE AND ADMINISTRATION.

Dosage should be adjusted according to severity of pain and response of the patient. However, it should be kept in mind that tolerance to codeine can develop with continued use and that the incidence of untoward effects is dose related. Adult doses of codeine higher than 60 mg fail to give commensurate relief of pain but merely prolong analgesia and are associated with an appreciable increased incidence of undesirable side effects. Equivalently high doses in children would have similar effects.

Acetaminophen and codeine phosphate oral solution contains 120 mg of acetaminophen and 12 mg of codeine phosphate per 5 mL (teaspoonful) and is given orally.

The recommended dose of codeine phosphate in children is 0.5 mg/kg body weight. The usual doses are:

Children:

(7 to 12 years): 10 mL (2 teaspoonfuls) 3 or 4 times

daily.

(3 to 6 years): 5 mL (1 teaspoofiful) 3 or 4 times daily.

(under 3 years): safe dosage has not been established.

Adults: 15 mL (1 tablespoonful) every 4 hours

as needed.

HOW SUPPLIED

Acetaminophen and codeine phosphate oral solution, USP contains 120 mg acetaminophen and 12 mg codeine phosphate / 5 mL (orange colored, cherry flavored) - NDC 55370-341-48. bottles of one pint.

Dispense in a tight, light-resistant container as defined in the USP.

Store at controlled room temperature 15°-30°C (59°-86°F). Do not refrigerate.

CAUTION: Federal law prohibits dispensing without prescription.

Item # 631500MV

Issued 5/\$5

Methemogrobinemia over 30% should be treated with methylene blue by slow intravenous administration.

Toxic Doses (for adults):

Acetaminophen: toxic dose Codeine: toxic dose

10 g 240 mg

DOSAGE AND ADMINISTRATION.

Dosage should be adjusted according to severity of pain and response of the patient. However, it should be kept in mind that tolerance to codeine can develop with con-tinued use and that the incidence of untoward effects is dose related. Adult doses of codeine higher than 60 mg fail to give commensurate relief of pain but merely prolong analgesia and are associated with an appreciable increased incidence of undesirable side effects. Equivalently high doses in children would have similar effects.

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(under 3 years): safe dosage has not been established.

Adults:

15 mL (1 tablespoonful) every 4 hours as needed.

HOW SUPPLIED

Acetaminophen and codeine phosphate oral solution, USP contains 120 mg acetaminophen and 12 mg codeine phosphate / 5 mL (orange colored, cherry flavored) - NDC 55370-341-48, bottles of one pint.

Dispense in a tight, light-resistant container as defined in the USP.

Store at controlled room temperature 15°-30°C (59°-86°F). Do not refrigerate.

CAUTION: Federal law prohibits dispensing without prescription.

Item # 631500MV

issued 5/95

Manufactured by

MOVA PHARMACEUTICAL CORPORATION

Caguas, Puerto Rico 00725, USA

MOVA

APPLICATION NUMBER 040098

CHEMISTRY REVIEW(S)

- 1. CHEMIST'S REVIEW NO. 4
- 2. <u>ANDA #</u> 40-098

3. NAME AND ADDRESS OF APPLICANT

MOVA Pharmaceutical Corporation. P.O. Box 8639 Caguas, Puerto Rico 00626

4. LEGAL BASIS FOR ANDA SUBMISSION

Reference drug product: Tylenol with Codeine Elixir- McNelab. Inc. (R.W. Johnson) No patents, AA product

- 5. <u>SUPPLEMENT(s)</u>: N/A
- 6. PROPRIETARY NAME

7. NONPROPRIETARY NAME

Acetaminophen and Codeine Phosphate Oral solution USP 120 mg/12 mg per 5 mL

- 8. SUPPLEMENT(s) PROVIDE(s) FOR: N/A
- 9. AMENDMENTS AND OTHER DATES:

Firm:

2-25-94: Original submission

3-26-94: NO

12-5-94: Amendment 7-7-95: Amendment 4-22-96: Amendment

FDA:

3-21-94: Acknowledgement 8-10-94: 1st NA letter 4-24-95: 2nd NA letter

3-19-96; Labeling NA letter (3rd NA letter)

10. PHARMACOLOGICAL CATEGORY

Narcotic Analgesic combination for the relief of mild to moderate pain.

11. Rx or OTC

Rx

12. RELATED IND/NDA/DMF(s)

(b)4 - Confidential Business

13. DOSAGE FORM

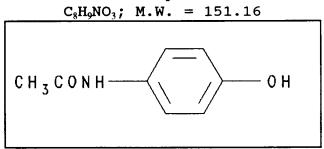
Oral Elixir Solution

14. POTENCY

120 mg/12 mg per 5 mL

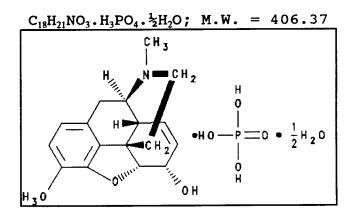
15. CHEMICAL NAME AND STRUCTURE

Acetaminophen USP



4'-Hydroxyacetanilide. CAS [103-90-2]

Codeine Phosphate USP



7,8-Didehydro-4-5 α -epoxy-3-methoxy-17-methylmorphinan-6 α -ol phosphate (1:1) (salt) hemihydrate. CAS [41444-62-6]

16. RECORDS AND REPORTS

N/A

17. COMMENTS

a. **EER:** Pending

Requested for applicant (b)4 - Confidential Business Inc. by Lucia C. Tang on 4-17-95. Updated and preapproval EER was requested on 5-2-96 by L. Tang.

b. MV (method validation):

Methods validation is not required since active ingredients and drug product are monographs in USP.

c. Bio-Review: Satisfactory

Bio-waiver was granted on 6-29-94 per reviewers M. Kochhar and M. Park.

d. Labeling review: Satisfactory

Satisfactory per A Vezza reviewed on 4-26-96.

e. DMFs: Satisfactory

DMF (b)4 was reviewed and found acceptable by L. Tang on 4-29-96.

The updated DMF (b)4 - was reviewed by S. Liu and found acceptable on 12-6-95.

18. CONCLUSIONS AND RECOMMENDATIONS

Approval

19. REVIEWER:

DATE COMPLETED:

Lucia C. Tang

5-6-96

APPLICATION NUMBER 040098

BIOEQUIVALENCE REVIEW(S)

Acetaminophen: Codeine Phosphate

Elixir, USP

120 mg/12 mg per 5 mL 1 pint Bottle

AMDA # 40-028

Reviewer: Man M. Kochhar

40098W.D93

Mova Pharmaceutical Caguas, Puerto Rico Submission Date: February 25, 1994

REVIEW OF A WAIVER REQUEST

The company has requested a waiver of the bioequivalence requirement for their acetaminophen:codeine phosphate elixir, 120 mg/12 mg per 5 mL, 1 pint bottle under the provision of 21 CFR 320.22 (b) (5). The product is intended for oral use only.

The composition of the product is as follows:

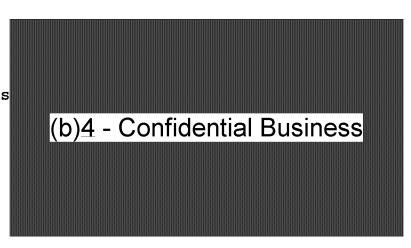
<u>Ingredients</u>	Mova Pharm Quantity/mL	McNeil Ouantity/mL	
Acetaminophen, USP	24.00 mg	24.00 mg	
Codeine Phosphate	2.40 mg	2.40 mg	

Inactive Materials

Sodium Benzoate, NF

Sodium Saccharin, USP
Citric Acid, USP (Anhydrous
Sucrose, NF
FD & C Yellow No. 6
Propylene Glycol, USP
Polyethylene Glycol 1450
Alcohol, USP
Artificial Cherry Flavor
Purified Water

Citric Acid (Anhydrous)*
Sodium Hydroxide, NF*



* It will be used only if necessary to adjust pH.

Comments:

- 1. The indications for use and labeling of the test product are identical to those of the reference product Tylenol with Codeine 120 mg/12 mg per 5 mL manufactured by McNeil Pharmaceuticals.
- 2. The quantities of active ingredient is same in both products. Both products contain same inactive ingredients but quantities may vary. This still follows the limits proposed in FDA's inactive ingredient guide.

Recommendation:

The Division of Bioequivalence agrees that the information submitted by Mova Pharm on its Acetaminophen:Codeine Phosphate Elixir; 120 mg/12 mg per 5 mL, 1 pint bottle fall under 21 CFR 320.22 (b) (5) of the Bioavailability/Bioequivalence regulations. Therefore, the waiver of in vivo bioequivalence study requirements for Acetaminophen:Codeine Phosphate Elixir; 120 mg/12 mg per 5 mL, 1 pint bottle is granted.

From the bioequivalence point of view, the Division of Bioequivalence deems the test product, Acetaminophen:Codeine Phosphate Elixir, 120 mg/ 12 mg per 5 mL, 1 pint bottle to be bioequivalent to Tylenol w/Codeine 120 mg/12 mg per 5 mL, 1 pint bottle by McNeil Pharmaceuticals.

The firm should be informed of the recommendation.

/S/

Hair M. Rocillar, Ph.D.

Review Branch III

Division of Bioequivalence

RD INITIALLED MPARK FT INITIALLED MPARK

/S/

Date: 6/29/94

MMKochhar/mmk/6-21-94, A:40098 W

cc: ANDA # 40-098 original, HFD-630, HFD 604 (Hare), HFD-130
(JALLEN), HFD-658 (Kochhar, MPark), Drug File, Division File.